

Title (en)
SEPARATOR AND ELECTROCHEMICAL DEVICE INCLUDING SAME

Title (de)
SEPARATOR UND ELEKTROCHEMISCHE VORRICHTUNG DAMIT

Title (fr)
SÉPARATEUR ET DISPOSITIF ÉLECTROCHIMIQUE ÉQUIPÉ DUDIT SÉPARATEUR

Publication
EP 3579302 A4 20200325 (EN)

Application
EP 18889919 A 20181211

Priority
• KR 20170169386 A 20171211
• KR 2018015724 W 20181211

Abstract (en)
[origin: EP3579302A1] The present disclosure relates to a separator and an electrochemical device including the same. The separator includes an adhesive layer including a first adhesive resin particles having a diameter corresponding to 0.8-3 times of the diameter of the inorganic particles and a second adhesive resin particles having a diameter corresponding to 0.2-0.6 times of the diameter of the inorganic particles, wherein the first adhesive resin particles are present in an amount of 30-90 wt% based on the total weight of the first adhesive resin particles and the second adhesive resin particles. The separator shows improved adhesion to an electrode and provides an electrochemical device with decreased increment in resistance after lamination with an electrode.

IPC 8 full level
H01M 10/052 (2010.01); **H01M 10/0525** (2010.01); **H01M 50/451** (2021.01); **H01M 50/457** (2021.01)

CPC (source: EP KR US)
H01M 4/622 (2013.01 - US); **H01M 10/052** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP US); **H01M 50/414** (2021.01 - KR); **H01M 50/431** (2021.01 - KR); **H01M 50/443** (2021.01 - KR); **H01M 50/446** (2021.01 - KR US); **H01M 50/451** (2021.01 - EP KR US); **H01M 50/457** (2021.01 - EP KR US); **H01M 50/461** (2021.01 - EP KR US); **H01M 50/491** (2021.01 - KR); **H01R 24/64** (2013.01 - US); **H01R 24/66** (2013.01 - US); **H02J 7/0013** (2013.01 - US); **H02J 7/0014** (2013.01 - US); **H02J 7/0042** (2013.01 - US); **H02J 7/0044** (2013.01 - US); **H02J 7/0045** (2013.01 - US); **H02J 7/342** (2020.01 - US); **H04R 1/028** (2013.01 - US); **H01R 2107/00** (2013.01 - US); **H02J 7/00** (2013.01 - US); **H02J 2207/40** (2020.01 - US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)
• [A] US 2013011715 A1 20130110 - LEE JOO-SUNG [KR], et al
• See references of WO 2019117605A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3579302 A1 20191211; **EP 3579302 A4 20200325**; **EP 3579302 B1 20220202**; CN 110521023 A 20191129; CN 110521023 B 20220513; JP 2020507188 A 20200305; JP 7094968 B2 20220704; KR 102258828 B1 20210531; KR 20190069338 A 20190619; PL 3579302 T3 20220419; US 11575179 B2 20230207; US 2020251708 A1 20200806; US 2023122483 A1 20230420; WO 2019117605 A1 20190620

DOCDB simple family (application)
EP 18889919 A 20181211; CN 201880024926 A 20181211; JP 2019542136 A 20181211; KR 2018015724 W 20181211; KR 20180159521 A 20181211; PL 18889919 T 20181211; US 201916530384 A 20190802; US 202218084947 A 20221220